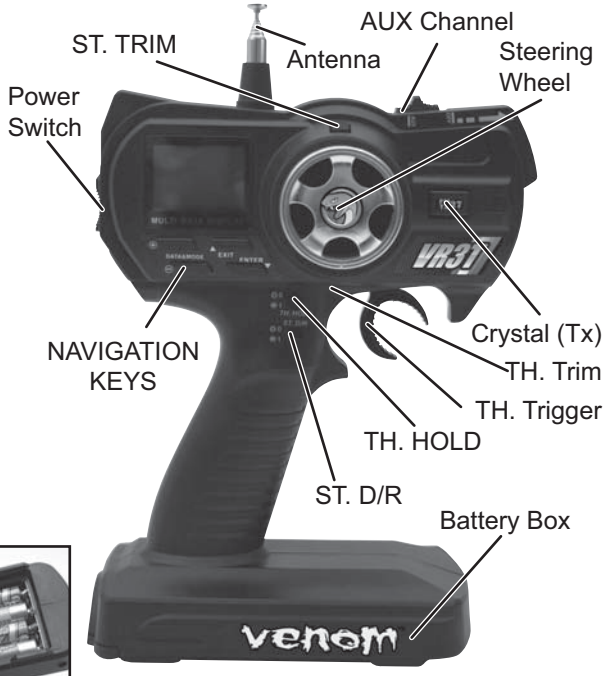
Venom VR3T

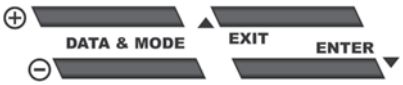
VEN-8178

3 Channel Transmitter

Thank you for purchasing the Venom VR3T, a 3-Channel Computerized FM Radio featuring 3rd Channel Mixing and 15 Model Memory. The radio also has been designed with Programmable Steering Dual Rate with a thumb switch so you can adjust the steering sensitivity on-the-fly. With the freedom of 3rd Channel mixing, The VR3T has so many high-end features you won't need to look anywhere else for a transmitter.



NAVIGATION KEYS



NOTE: Make sure the polarity of the 8 AA Alkaline batteries are correct when they are put into the transmitter.

1.0 STEERING TRIM

In order for these settings to be programed into the VR3T the following steps must be followed.

1) All model components must be connected correctly. Starting with the receiver, servos, and power supply.
2) The steering and throttle trims on the VR3T are set at neutral.
3) Always make sure to turn on the transmitter first before turning on the receiver.
4) Make sure the transmitters antenna is completely extended for best input results.

SETTING THE STEERING TRIM

Use the external trim button located above the Steering Wheel to make fine adjustments while driving your model. During assembly of a new model or a repair use the Sub Trim feature; see 1.4 TRIM (SUB TRIM), to center the servo. Use the external trim button for small adjustments when operating a model.

SETTING THE THROTTLE TRIM

Use the external trim button located under the Steering Wheel to make fine adjustments while driving your model. During assembly of a new model or a repair use the Sub Trim feature; see 1.4 TRIM (SUB TRIM), to center the servo. Use the external trim button for small adjustments when operating a model.

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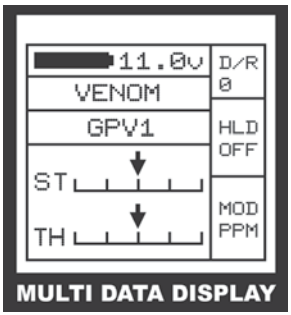
1.1 MAIN SCREEN

After the VR3T has performed a system check when turned on the MAIN SCREEN will appear. This screen displays important information about the battery voltage, settings and the model selected.



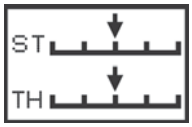
MULTI DATA DISPLAY

Represents a fully charged battery. this will start at 11.0 or higher depending on the type of AA battery that is being used to power the transmitter (Alkaline/ Rechargeable NIMH). NOTE: When the battery has dropped below 8.4v an alarm will sound.

Displays the current Steering Dual Rate value (see 1.3 - ST D/R Steering Dual Rate)

Displays the TH HOLD status as ON or OFF (see 2.4 SYSTEM/HOLD (TH. HOLD)

Displays the transmitting mode (see 2.1 SYSTEM / MOD (MODULATION)



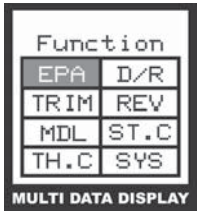
The current position of the steering and throttle trims setting are displayed.

PROGRAMMING MODE

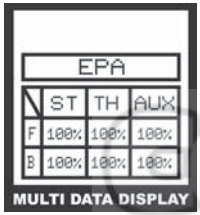
To enter programming mode from the Main Screen press the **ENTER** button on the transmitter. To save and exit from the sub menu press **EXIT**.

1.2 FUNCTION / EPA (END POINT ADJUSTMENT)

End Point Adjustment (EPA) - Used to set the maximum travel of the desired function from 0-120%. Can be used to set both directions of travel (fwd/bk & lft/rt) to adjust the overall range of movement or value. Can be used in conjunction with Dual Rate (see also Dual Rate)



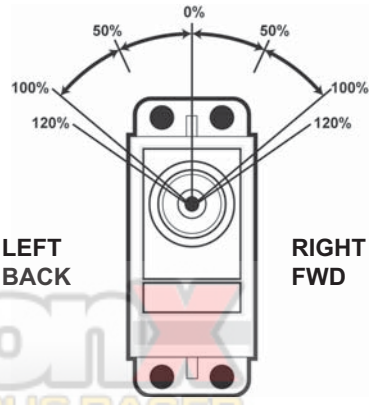
MULTI DATA DISPLAY



MULTI DATA DISPLAY

1) Press **ENTER** to see the FUNCTION MENU
2) Use the **+/- KEYS** to highlight the EPA box and press **ENTER**
3) Press **ENTER** to select a value
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen

NOTE: When using an electronic speed control (ESC) set the Throttle EPA values to 120%. This will allow the ESC to calibrate itself to the VR3T and make the response and feel of the throttle as smooth as possible.



SERVO

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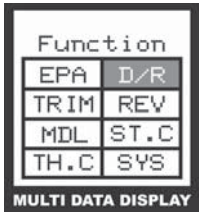
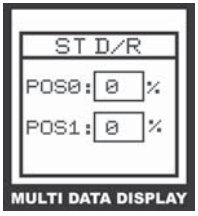
TERMS: F-FORWARD, B-BACK, ST-STEERING, TH-THROTTLE, AUX-AUXILLIARY

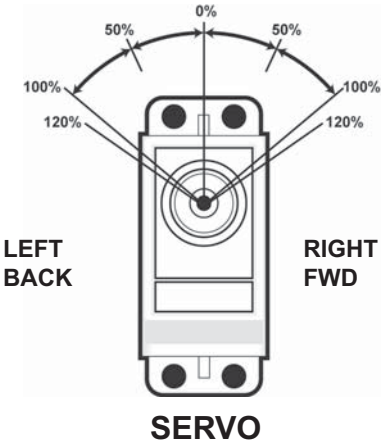
1.3 FUNCTION / ST D/R (STEERING DUAL RATE)

ST D/R - Steering Dual Rate (ST D/R) - Creates two overall steering travel presets. Set the primary value POS0 to an equal or lesser percentage of the steering EPA. Set the secondary value POS1 to a lower percentage than the primary value POS0. Use the ST D/R button on the grip of the transmitter to select between the two preset values. Example, if the EPA steering value is 100% then set POS0 to 100% (or less) and set POS1 to 80%. When the ST D/R button is pressed the steering travel value changes between 100% and 80% This allows you to change the amount of steering while driving.





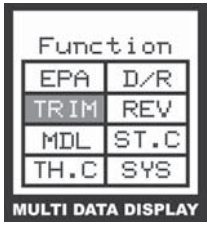
1) Press **ENTER** to see the FUNCTION MENU
2) Use the **+/- KEYS** to highlight the D/R box and press **ENTER**
3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen



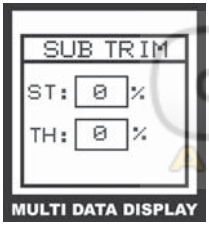
TERMS: POS- POSITION

1.4 FUNCTION / TRIM (SUB TRIM)

The SUB TRIM feature allows for a function to be adjusted in 1% increments from the center of travel point which is 0%. Use this to make small adjustments and to center a servo during assembly. While driving, using the external TRIM BUTTONS for Steering (ST) and Throttle (TH)



1) Press **ENTER** to see the FUNCTION MENU
2) Use the **+/- KEYS** to highlight the TRIM box and press **ENTER**
3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen



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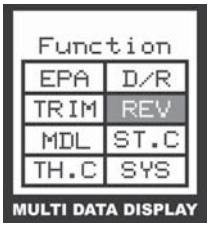
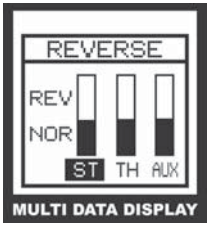
TERMS: ST-STEERING, TH-THROTTLE.

1.5 FUNCTION / REV (REVERSE)

REV - REVERSE (REV) - used to reverse the direction of movement or action by a servo or speed control.

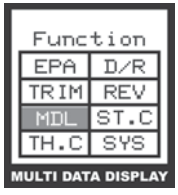


1) Press **ENTER** to see the FUNCTION MENU
2) Use the **+/- KEYS** to highlight the REV box and press **ENTER**
3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen



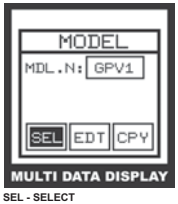
TERMS: F-FORWARD, B-BACK, ST-STEERING, TH-THROTTLE, AUX-AUXILLIARY

1.6 FUNCTION / MDL (MODEL)



MDL - MODEL (MDL) - used to choose 1 of 15 models; name and copy them as needed.

SEL - SELECT



SEL - SELECT

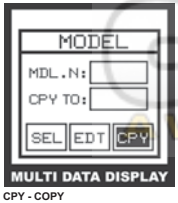
1) Press **ENTER** to access the model memory
2) Use the **+/- KEYS** to choose a model profile
3) Press **ENTER** to save your selection
4) Press **EXIT** to save and return to FUNCTION MENU, press EXIT again to return to the Main Screen

EDT - EDIT

EDT-EDIT

1) Press **ENTER** to access the model profile
2) Use the **+/- KEYS** to type a new name for the profile
3) Press ↵ to save your selection
4) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen

CPY - COPY



CPY - COPY

1) Press **ENTER** to access the model profile
2) Use the **+/- KEYS** to choose a model profile to copy onto another selected profile
3) Press **ENTER** to save your selection
4) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen

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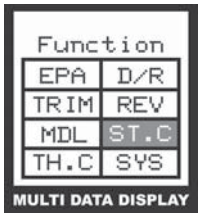
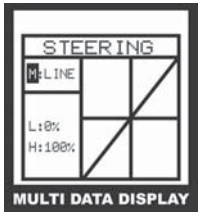
TERMS: F-FORWARD, B-BACK, ST-STEERING, TH-THROTTLE, AUX-AUXILLIARY

1.7 FUNCTION / ST.C (STEERING CENTER)

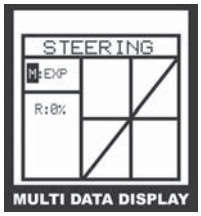


ST.C - STEERING CENTER (ST.C) - allows for two modes of operation, Linear (default) and Exponential. Use the linear mode for most applications. Adjust the high and low points and observe the function in use on the graph. Use the exponential mode to reduce the sensitivity around the center of the command. This helps make a twitchy function seem more calm, helping prevent an over-reaction. Can also be used to speed up a function.

1) Press **ENTER** to see the FUNCTION MENU



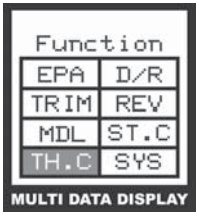
2) Use the **+/- KEYS** to highlight the ST.C box and press **ENTER**
3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen



- Negative expo will slow down the steering function
- Positive expo will speed up the the steering function

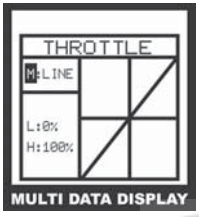
TERMS: LINE-LINEAR, EXP-EXPONENTIAL, M-MODE, L-LOW, H-HIGH, R-RATE

1.8 FUNCTION / TH.C (THROTTLE CENTER)

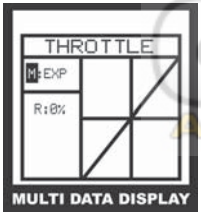


TH.C - THROTTLE CENTER (TH.C) - allows for two modes of operation, Linear (default) and Exponential. Use the linear mode for most applications. Adjust the high and low points and observe the function in use on the graph. Use the exponential mode to reduce the sensitivity around the center of the command. This helps make a twitchy function seem more calm, helping prevent an over-reaction. Can also be used to speed up a function.

1) Press **ENTER** to see the FUNCTION MENU



2) Use the **+/- KEYS** to highlight the TH.C box and press **ENTER**
3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen



- Negative expo will slow down the throttle function
- Positive expo will speed up the the throttle function

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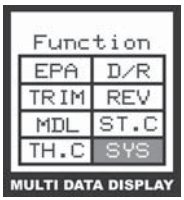
TERMS: LINE-LINEAR, EXP-EXPONENTIAL, M-MODE, L-LOW, H-HIGH, R-RATE

1.9 FUNCTION / SYSTEM

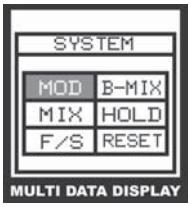


SYS - SYSTEM (SYS) - select to enter the SYSTEM SUB MENU

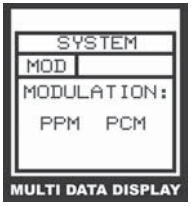
1) Press **ENTER** to see the FUNCTION MENU
2) Use the **+/- KEYS** to highlight the SYS box
3) Press **ENTER** to access the second programming menu SUB MENU B
4) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen

2.0 SYSTEM / MOD (MODULATION)

MOD - MODULATION (MOD) - select this function to change the frequency modulation of the VR3T from PPM to PCM.



1) View the SUB MENU B (see 1.9 SYSTEM SUB MENU B)
2) Use the **+/- KEYS** to highlight the MOD box and press **ENTER**
4) Use the **+/- KEYS** to select a setting
5) Press **EXIT** to save and return to FUNCTION MENU, press **EXIT** again to return to the Main Screen

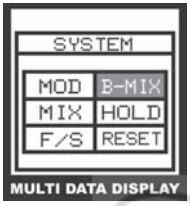


NOTE: PPM IS THE FACTORY DEFAULT; THIS WILL CORRESPOND WITH THE TRANSMITTERS RECEIVER. IN ORDER FOR THE PCM SETTINGS TO WORK THE TRANSMITTER WILL NEED A PCM RECEIVER.

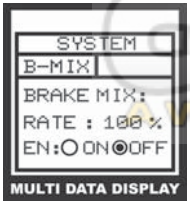
TERMS: EN-ENABLE

2.1 SYSTEM / B-MIX (BRAKE MIXING)

B-MIX - BRAKE MIXING (B-MIX) - when using a secondary brake system set the BRAKE MIX value to a percentage of the Throttle Braking EPA. Entering a higher value will shift the strength of the braking force to the secondary brake system. This is also known as Brake Bias. This function can be used in conjunction with the TH TRIM button and TH EPA to fine tune the power and balance of the overall braking system.



1) View the SUB MENU B (see 1.9 SYSTEM SUB MENU B)
2) Use the **+/- KEYS** to highlight the B-MIX box and press **ENTER**
3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to SYSTEM MENU, press **EXIT** to return to the FUNCTION MENU, press **EXIT** again to Main Screen.



TERMS: EN-ENABLE

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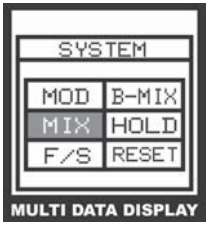
2.2 SYSTEM / MIX (MIXING)

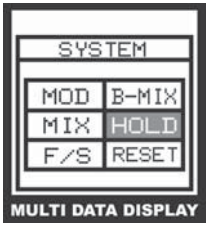
MIX - MIXING - used to mix between functions for greater control of the model.



1) View the SUB MENU B (see 1.9 SYSTEM SUB MENU B)
2) Use the **+/- KEYS** to highlight the MIX box and press ENTER
3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to SYSTEM MENU, press **EXIT** to return to the FUNCTION MENU, press **EXIT** again to Main Screen.

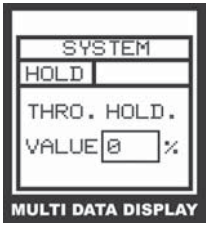
TERMS: EN-ENABLE, ST-STEERING, TH-THROTTLE, AUX-AUXILLIARY,

2.3 SYSTEM / HOLD (TH. HOLD)

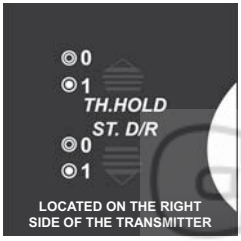


HOLD - THROTTLE HOLD (TH. HOLD) - allows the Throttle Servo to be set to a percentage of the total travel range. This is an alternative to using the motors choke when starting up the model. This function locks out the normal use of the Throttle until the TH. HOLD button on the transmitter is pushed again. Do not set this value very high to prevent a run away vehicle.

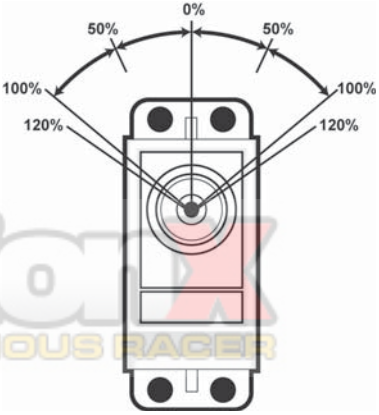
1) View the SUB MENU B (see 1.9 SYSTEM SUB MENU B)
2) Use the **+/- KEYS** to highlight the HOLD box and press ENTER



3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to SYSTEM MENU, press **EXIT** to return to the FUNCTION MENU, press **EXIT** again to Main Screen.



To use this setting while running the model press the TH. HOLD button located on the right side of the transmitter grip once. Doing so will enable the TH. TRIGGER and put the throttle at the set value. To release the TH. HOLD press it once more giving full function to the TH.TRIGGER.



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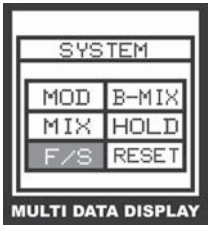
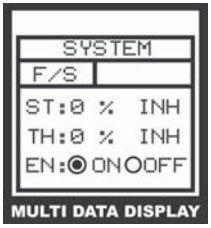
2.4 SYSTEM / F/S (FAIL-SAFE)

F/S - FAIL SAFE (F/S) - Fail Safe feature for use with PCM receivers only. If a loss of signal should occur the receiver will adjust the steering or throttle or both to a preset value. Use an external fail safe unit if a PCM receiver is not in use.



1) View the SUB MENU B (see 1.9 SYSTEM SUB MENU B)
2) Use the **+/- KEYS** to highlight the F/S box and press **ENTER**
3) Press **ENTER** to select a setting
4) Use the **+/- KEYS** to change the value
5) Press **EXIT** to save and return to SYSTEM MENU, press **EXIT** to return to the FUNCTION MENU, press **EXIT** again to Main Screen.



TERMS: EN-ENABLE, TH-THROTTLE, ST-STEERING,

2.5 SYSTEM / RESET

RESET - Select to reset the entire memory of the VR3T. All settings will be reset to default values.

1) View the SUB MENU B (see 1.9 SYSTEM SUB MENU B)
2) Use the **+/- KEYS** to highlight the RESET box and press **ENTER**
3) Press **ENTER** to reset the VR3T transmitter memory
5) Press **EXIT** to save and return to SYSTEM MENU, press **EXIT** to return to the FUNCTION MENU, press **EXIT** again to Main Screen.

2.6 TRANSMITTER & RECEIVER SPECIFICATIONS

TRANSMITTER

MODEL: VEN-8178 VR3T 3 CHANNEL TRANSMITTER
SPECIFICATIONS: COMPUTERIZED LCD
CODE FORMAT: PPM/PCM
CHANNELS: 3
FREQUENCY: 27mhz
DC: 9.6V, < 200mA
MEASUREMENTS: 230* 175* 75mm (Package meas.)
NET WEIGHT: 560g with 8 AA Batteries

Venom PPM/FM 4 Channel Receiver:
1) Channel 1: throttle servo, ESC,
2) Channel 2: steering servo, ESC
3) Channel 3: Servo, ESC, Optional
4) Channel 4: Battery (Power Supply)

Competition Only

NOTES

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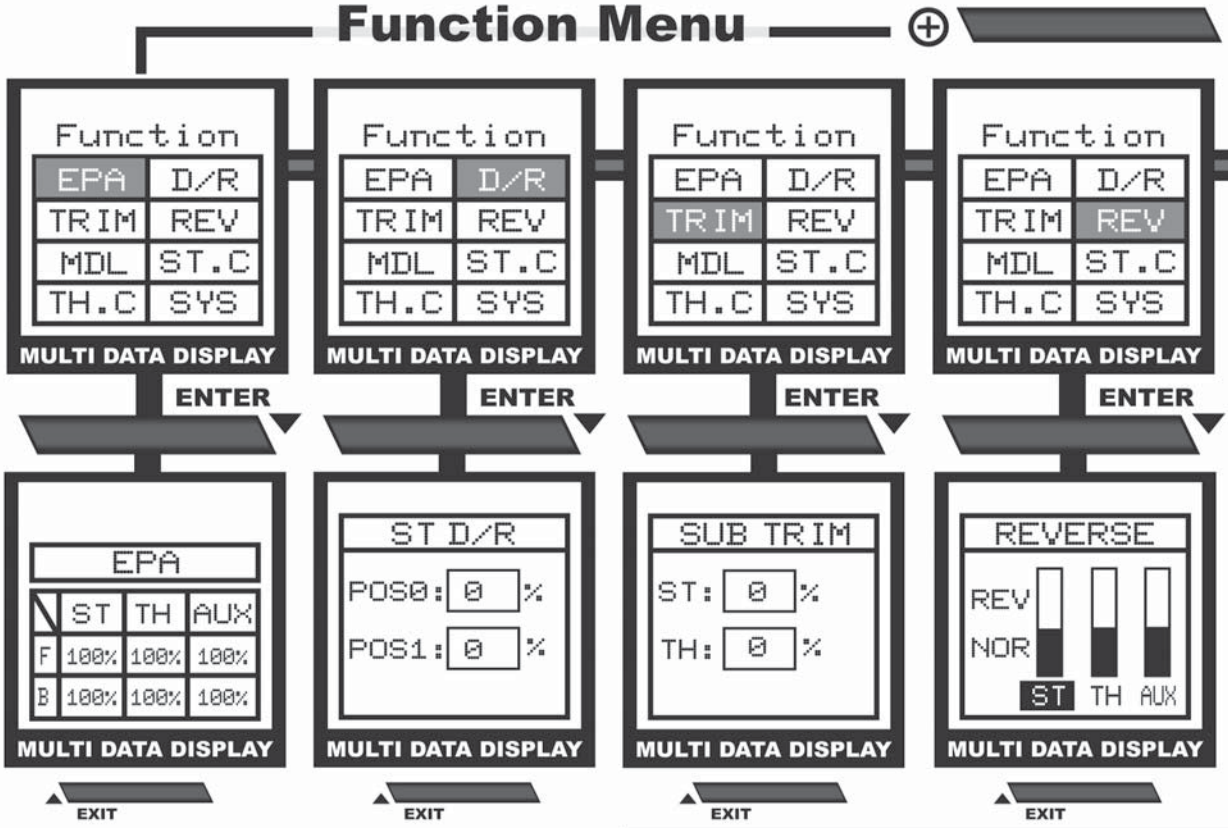
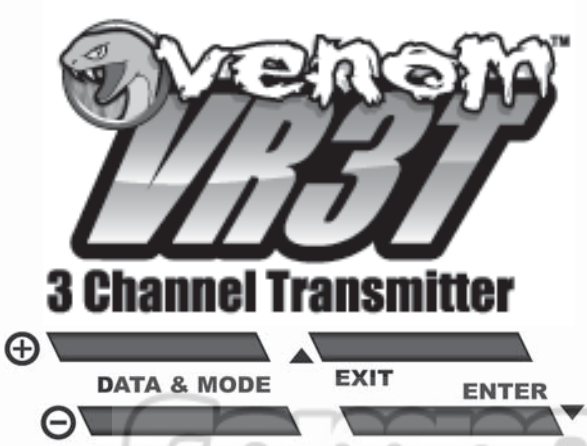
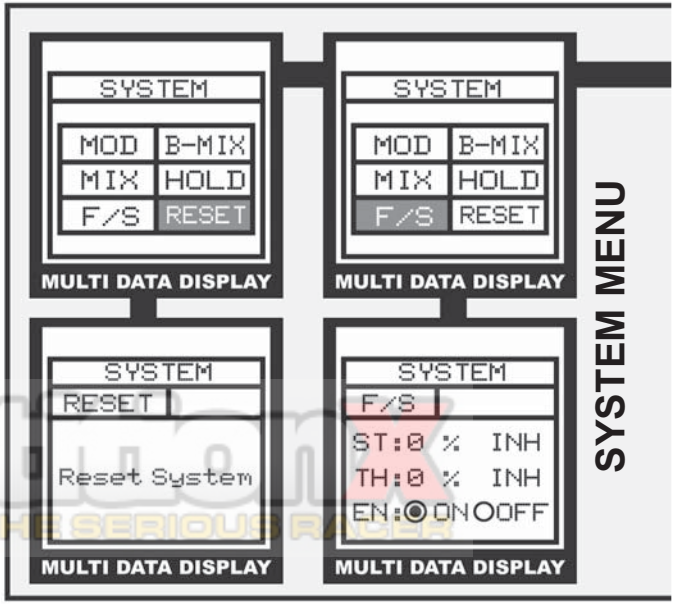
Function Menu







MENU NAV KEY

Enter - Select in Item
Exit - Saves Value
+/- to select values and nav.

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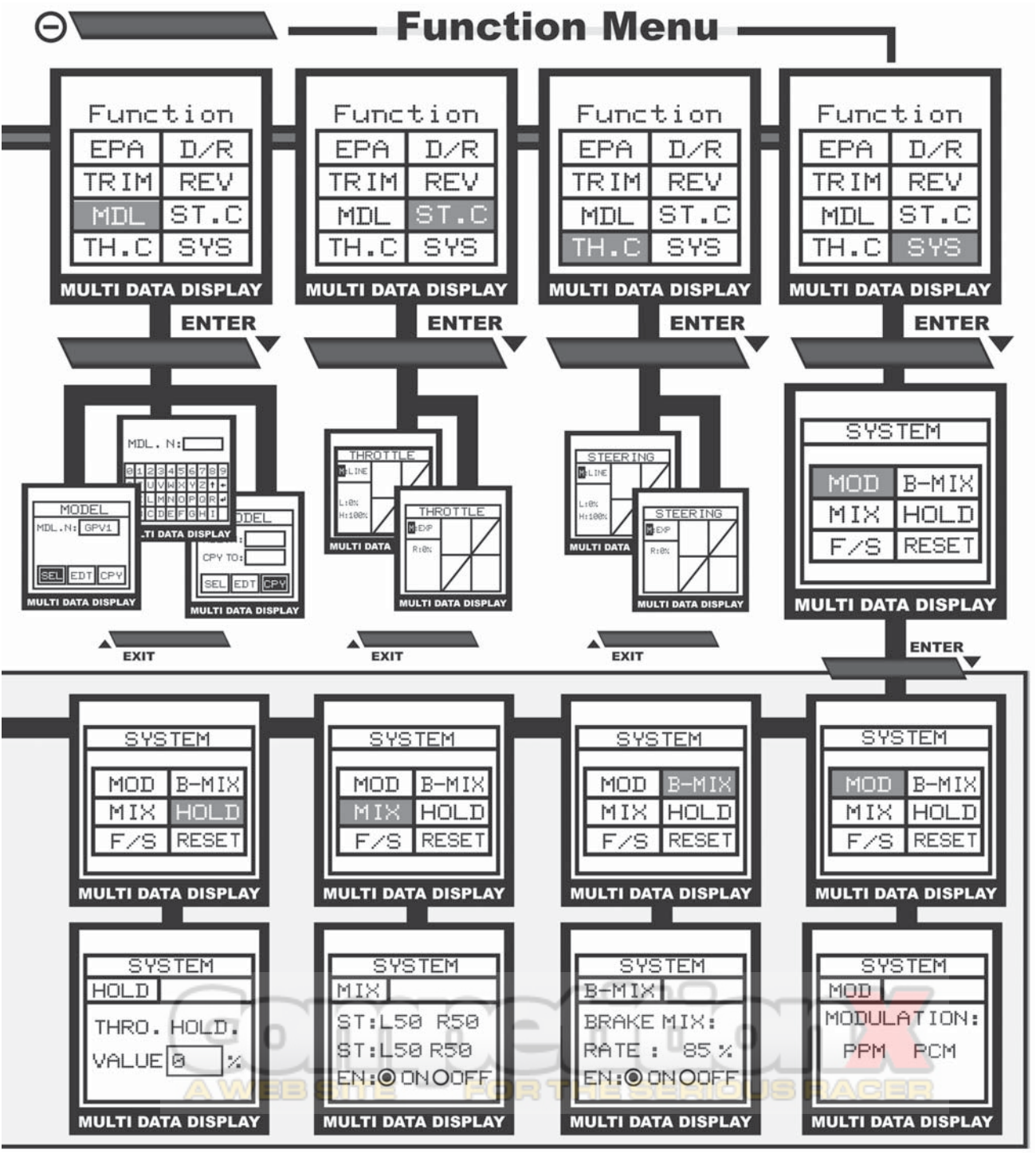
Function Menu
Function
EPA
D/R
TRIM
REV
MDL
ST.C
TH.C
SYS
MULTI DATA DISPLAY
ENTER
EXIT
MODEL
MDL.N: GPV1
SEL
EDT
CPY
CPY TO:
THROTTLE
STEERING
EXP
SYSTEM
MOD
B-MIX
MIX
HOLD
F/S
RESET
HOLD
THRO. HOLD.
VALUE 0 %
MIX
ST:L50 R50
EN: ON OFF
B-MIX
BRAKE MIX:
RATE : 85 %
MOD
MODULATION:
PPM PCM

Venom™ Limited Warranty
Venom™ warrants this product to be free of material and workmanship defects when new. If a component is defective or was not correctly made, Venom™ will, at its sole discretion, repair or replace it free of charge within 90 days from date of purchase. If you believe a defect became evident only after operation, please contact us to discuss the situation.

A dated & itemized sales receipt must accompany any product returned for warranty work. Before returning any product, please contact Venom™ Customer Service at 800-705-0620 to receive a Return Merchandise Authorization Number (RMA#).

We guarantee this product to be free of manufacturing faults and material defects. This product has been checked and adjusted individually before leaving the manufacturer. Please contact your local hobby shop for replacement parts and technical support or contact Venom™ Customer Service at 800.705.0620 or customerservice@venom-group.com.

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